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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2024 Air Force **Date:** March 2023

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0208064F / <i>OPERATIONAL HQ - CYBER</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	-	2.037	14.347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.384
676002: <i>Cyber Systems Modernization</i>	-	2.037	14.347	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	16.384
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**Note**  
 In FY 2023, Project 676002, (Cyber Systems Modernization) was completed.

**A. Mission Description and Budget Item Justification**

Cyber Command and Control Mission System [C3MS] Mission Description: Provides the AFCYBER Commander with the tools necessary to effectively and efficiently plan, monitor, and execute missions in the cyber domain. This includes development and dissemination of Cyberspace Tasking Orders to ensure commander's intent is supported through the application of cyber forces using the latest intelligence. C3MS provides a common operational picture to maintain cyberspace threat activities and integrates cyberspace indications and warnings, analysis, and other actionable intelligence products into overall situational awareness, planning, and execution.

C3MS capabilities will fully transition to Joint Cyber Command and Control [JCC2]. All efforts support continuous development with focus on interoperability and integration into JCC2. C3MS will continue modernization efforts based on a backlog of validated requirements to automate battle management capabilities and provide comprehensive cyber situational awareness. Developmental Activities include: machine-to-machine interfaces to dynamically interoperate with Air Operations Center [AOC] systems, enabling the 616 OC to conduct Command and Control [C2] and Situational Awareness [SA] at the operational level, publish AF Cyber Tasking Orders [CTOs], and quickly facilitate collaboration and mutual situational awareness; capabilities to present weapon system operators with near-real-time force location, mission, effect, and linked information, including a standardized, dynamic, map-based, situational awareness interface to display, manipulate, and manage units, missions, network elements, and effects; and multi-level security capabilities to support full-spectrum operations.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY22 \$0.000M was expended for civilian pay expenses in this program element, and in FY23 \$0.000M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	2.115	2.347	15.100	0.000	15.100
Current President's Budget	2.037	14.347	0.000	0.000	0.000
Total Adjustments	-0.078	12.000	-15.100	0.000	-15.100
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	12.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.078	0.000			
• Other Adjustments	0.000	0.000	-15.100	0.000	-15.100

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 676002: *Cyber Systems Modernization*

Congressional Add: *Command and Control of the Information Environment*

Congressional Add Subtotals for Project: 676002

Congressional Add Totals for all Projects

	<b>FY 2022</b>	<b>FY 2023</b>
	-	12.000
Congressional Add Subtotals for Project: 676002	-	12.000
Congressional Add Totals for all Projects	-	12.000

**C. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
<b>Title:</b> Cyber Command and Control Mission System [C3MS] Modernization	2.037	2.347	0.000
<b>Description:</b> Perform development activities to automate processes and ingest & visualize data in support of Air Force specific cyber command and control requirements. Funding includes agile/continuous software development, test, and evaluation.			
<b>FY 2023 Plans:</b>			
- Develop automated battle management processes to define and provide cyber situational awareness to improve Air Force cyber command and control.			
- Develop multi-level security capabilities.			
- Develop machine-to-machine interface to dynamically interoperate with Air Operations Center [AOC] systems.			
- Develop system interoperability and integration into JCC2			
<b>FY 2024 Plans:</b>			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>
N/A				
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Funding decreased due to completion of this thrust.				
<b>Accomplishments/Planned Programs Subtotals</b>		2.037	2.347	0.000
		<b>FY 2022</b>	<b>FY 2023</b>	
<b>Congressional Add:</b> Command and Control of the Information Environment		-	12.000	
<b>FY 2023 Plans:</b> Next Generation Architecture - Execute accreditation activities to gain authorization to implement production instances in multi-domain environments (JWICS, SIPR, NIPR) - Migrate on-premises primary environment to Cloud and instantiate JWICS environment with additional work for full production deployment - Initiate, investigate, and scope effort necessary to refactor existing architecture to cloud native form  Mis/Disinformation / Non-Lethal Integration - Integrate Cyber/Cyber terrain data to inform non-lethal targeting - Integrate Security Cooperation Engagement data to enable country-level campaigning and target-audience messaging efforts - Identify, develop, and implement technologies applicable to mis/disinformation  Joint Assessments - Expand current effort with Joint Staff J5 to develop requirements and implement capabilities supporting global campaign assessments - Identify, scope, and create an interface to ingest additional intelligence and raw reporting information to assist in qualification and measurement during assessments - Discover features to support campaign planning based on assessments generated within C2IE				
<b>Congressional Adds Subtotals</b>		-	12.000	

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**D. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPAF 03 834320: C3 Countermeasures	4.882	8.417	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	13.299

**Remarks**

**E. Acquisition Strategy**

The Cyber Command and Control Mission System (C3MS) weapon system program office will lead development of new capabilities to provide automated battle management capabilities to plan, monitor, and execute missions in the cyber domain. The program office will develop solutions based on a backlog of validated requirements. To meet these requirements, the C3MS program office will utilize various contractual vehicles when necessary, such as Government-Wide Acquisition Contract, Solutions for Enterprise-Wide Procurement IV, and General Services Administration Federal Supply Schedules, Network-Centric Solutions, Responsive Cyber Indefinite Delivery/Indefinite Quantity (IDIQ), Blanket Ordering Agreements (BOA) and competitive contract (if required). The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that will be able to meet emerging requirements related to Air Force Cyber Command and Control.



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2024 Air Force		<b>Date:</b> March 2023
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0208064F / OPERATIONAL HQ - CYB ER	<b>Project (Number/Name)</b> 676002 / Cyber Systems Modernization

FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>Automated Battle Management and Cyber SA</b>	
Architecture and Modeling Support	
Software Development	
Test and Evaluation	
<b>Congressional Add: C2IE</b>	
Software Development	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2024 Air Force		<b>Date:</b> March 2023
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Automated Battle Management and Cyber SA</b>				
Architecture and Modeling Support	1	2022	4	2023
Software Development	1	2022	1	2024
Test and Evaluation	1	2022	4	2023
<b>Congressional Add: C2IE</b>				
Software Development	3	2023	2	2024

**Note**

FY23 C3MS development contract period of performance ends 1Q FY24.